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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,668	05/01/2007	Neil Buxton	3711-000121/US/NP	2798
27572 7590 06/06/2008 HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			EXAMINER ROCHE, JOHN B	
			ART UNIT 2184	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/593,668	Applicant(s) BUXTON ET AL.	
	Examiner JOHN B. ROCHE	Art Unit 2184	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 September 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>1 May 2007</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (g) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (j) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (l) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Content of Specification

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- (a) Title of the Invention: See 37 CFR 1.72(a) and MPEP § 606. The title of the invention should be placed at the top of the first page of the specification unless the title is provided in an application data sheet. The title of the invention should be brief but technically accurate and descriptive, preferably from two to seven words may not contain more than 500 characters.
- (b) Cross-References to Related Applications: See 37 CFR 1.78 and MPEP § 201.11.
- (c) Statement Regarding Federally Sponsored Research and Development: See MPEP § 310.
- (d) The Names Of The Parties To A Joint Research Agreement: See 37 CFR 1.71(g).
- (e) Incorporation-By-Reference Of Material Submitted On a Compact Disc: The specification is required to include an incorporation-by-reference of electronic documents that are to become part of the permanent United States Patent and Trademark Office records in the file of a patent application. See 37 CFR 1.52(e) and MPEP § 608.05. Computer program listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables having more than 50 pages of text were permitted as electronic documents on compact discs beginning on September 8, 2000.
- (f) Background of the Invention: See MPEP § 608.01(c). The specification should set forth the Background of the Invention in two parts:
 - (1) Field of the Invention: A statement of the field of art to which the invention pertains. This statement may include a paraphrasing of the applicable U.S. patent classification definitions of the subject matter of the claimed invention. This item may also be titled "Technical Field."
 - (2) Description of the Related Art including information disclosed under 37 CFR 1.97 and 37 CFR 1.98: A description of the related art known to the applicant and including, if applicable,

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references to specific related art and problems involved in the prior art which are solved by the applicant's invention. This item may also be titled "Background Art."

- (g) Brief Summary of the Invention: See MPEP § 608.01(d). A brief summary or general statement of the invention as set forth in 37 CFR 1.73. The summary is separate and distinct from the abstract and is directed toward the invention rather than the disclosure as a whole. The summary may point out the advantages of the invention or how it solves problems previously existent in the prior art (and preferably indicated in the Background of the Invention). In chemical cases it should point out in general terms the utility of the invention. If possible, the nature and gist of the invention or the inventive concept should be set forth. Objects of the invention should be treated briefly and only to the extent that they contribute to an understanding of the invention.
- (h) Brief Description of the Several Views of the Drawing(s): See MPEP § 608.01(f). A reference to and brief description of the drawing(s) as set forth in 37 CFR 1.74.
- (i) Detailed Description of the Invention: See MPEP § 608.01(g). A description of the preferred embodiment(s) of the invention as required in 37 CFR 1.71. The description should be as short and specific as is necessary to describe the invention adequately and accurately. Where elements or groups of elements, compounds, and processes, which are conventional and generally widely known in the field of the invention described and their exact nature or type is not necessary for an understanding and use of the invention by a person skilled in the art, they should not be described in detail. However, where particularly complicated subject matter is involved or where the elements, compounds, or processes may not be commonly or widely known in the field, the specification should refer to another patent or readily available publication which adequately describes the subject matter.

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- (j) Claim or Claims: See 37 CFR 1.75 and MPEP § 608.01(m). The claim or claims must commence on separate sheet or electronic page (37 CFR 1.52(b)(3)). Where a claim sets forth a plurality of elements or steps, each element or step of the claim should be separated by a line indentation. There may be plural indentations to further segregate subcombinations or related steps. See 37 CFR 1.75 and MPEP § 608.01(i)-(p).
- (k) Abstract of the Disclosure: See MPEP § 608.01(f). A brief narrative of the disclosure as a whole in a single paragraph of 150 words or less commencing on a separate sheet following the claims. In an international application which has entered the national stage (37 CFR 1.491(b)), the applicant need not submit an abstract commencing on a separate sheet if an abstract was published with the international application under PCT Article 21. The abstract that appears on the cover page of the pamphlet published by the International Bureau (IB) of the World Intellectual Property Organization (WIPO) is the abstract that will be used by the USPTO. See MPEP § 1893.03(e).
- (l) Sequence Listing, See 37 CFR 1.821-1.825 and MPEP §§ 2421-2431. The requirement for a sequence listing applies to all sequences disclosed in a given application, whether the sequences are claimed or not. See MPEP § 2421.02.

Claim Objections

1. Claims 3 and 7-12 are objected to because of the following informalities:
2. In claim 3, line 2, "ATA/EDE" should be -ATA/IDE-.
3. In claim 7, line 10, "ATA/DDE" should be -ATA/IDE-.
4. In claim 9, line 2, "ATA/DDE" should be -ATA/IDE-.
5. Appropriate correction is required.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Hatano (US 2002/0002645), hereafter referred to as Hatano'045.

8. Referring to claim 7, Hatano'045 anticipates a host apparatus (IEEE 1394/IDE conversion device 10 as seen in figure 1 and paragraph 34, line 2) arranged to transmit commands to an external storage medium device connected to the host apparatus over an external databus which is arranged in accordance with one of the IEEE 1394 standard or the Universal Serial Bus standard (1394 controller 5 as seen in figure 1 and paragraph 34, lines 5-6), the host apparatus comprising: a command bus and a command interface arranged in accordance with one of the ATA/IDE standard or the Serial ATA standard (IDE port 3 as seen in figure 1 and paragraph 34, line 5) for transmitting commands to a storage medium device (HDD 6 as seen in figure 1 and paragraph 34, line 7) over the storage medium command bus (IDE

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port 3 as seen in figure 1 and paragraph 34, line 5); and at least one integrated circuit chip connected to the storage medium command bus (device controller 2 coupled to IDE port 3 as seen in figure 1 and paragraph 34, lines 4-5) and having terminals for connection to the external databus (1394 interface unit 9 as seen in figure 1 and paragraph 34, line 14), the integrated circuit chip having an interface arranged to convert commands received from the command bus in a format in accordance with one of the ATA/IDE standard or the Serial ATA standard into a format in accordance with said one of the IEEE 1394 standard or the Universal Serial Bus standard (controller for converting the first information into a predetermined format that can be read by a third device, paragraph 20, lines 9-11), and to supply the converted commands to the terminals for connection to the external databus (1394 controller 5 coupled to 1394 interface unit 9 as seen in figure 1 and paragraph 34, lines 13-14).

9. Note that claims 1 and 13 contain the corresponding limitations of claim 7 above; therefore, they are rejected using the same reasoning accordingly.

10. As to claim 8, Hatano'045 also anticipates a host apparatus wherein the host apparatus is a digital television receiver apparatus (1394 bus may couple a digital broadcast receiving device and a digital television, paragraph 5, lines 5-7).

11. Note that claims 2 and 14 contain the corresponding limitations of claim 8 as shown above; therefore, they are rejected using the same reasoning accordingly.

12. As to claim 9, Hatano'045 also anticipates a host apparatus wherein said one of the ATA/IDE standard or the Serial ATA standard is the ATA/IDE standard (IDE port 3 as seen in figure 1 and paragraph 34, line 5).

13. Note that claims 3 and 15 contain the corresponding limitations of claim 9 as shown above; therefore, they are rejected using the same reasoning accordingly.

14. As to claim 10, Hatano'045 also anticipates a host apparatus wherein said one of the IEEE 1394 standard and the Universal Serial Bus standard is the IEEE 1394 standard (1394 controller 5 coupled to 1394 interface unit 9 as seen in figure 1 and paragraph 34, lines 13-14).

15. Note that claims 4 and 16 contain the corresponding limitations of claim 10 as shown above; therefore, they are rejected using the same reasoning accordingly.

16. As to claim 11, Hatano'045 also anticipates a host apparatus wherein said one of the IEEE 1394 standard and the Universal Serial Bus standard is the IEEE 1394 standard including the Serial Bus Protocol (SBP2 communication protocol used to control the 1394 HDD device, paragraph 9, lines 2-3).

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17. Note that claims 5 and 17 contain the corresponding limitations of claim 11 as shown above; therefore, they are rejected using the same reasoning accordingly.

18. As to claim 12, Hatano'045 anticipates a host apparatus wherein the interface of the integrated circuit chip comprises a first layer arranged in accordance with said one of the ATA/IDE standard or the Serial ATA standard to receive commands from the command bus (IDE port 3 as seen in figure 1 and paragraph 34, lines 4-5); a second layer arranged to convert commands output from the first layer into a format in accordance with said one of the IEEE 1394 standard or the Universal Serial Bus standard (controller for converting the first information into a predetermined format that can be read by a third device, paragraph 20, lines 9-11); and a third layer arranged in accordance with said one of the IEEE 1394 standard or the Universal Serial Bus standard to transmit the converted commands over the external databus (1394 controller 5 coupled to 1394 interface unit 9 as seen in figure 1 and paragraph 34, lines 13-14).

19. Note that claims 6 and 18 contain the corresponding limitations of claim 12 as shown above; therefore, they are rejected using the same reasoning accordingly.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOHN B. ROCHE whose telephone number is (571)270-1721. The examiner can normally be reached on 8:30 am - 5:00 pm, M-F EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Tsai can be reached on 571-272-4176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JR

**/Henry W.H. Tsai/
Supervisory Patent Examiner, Art Unit 2184**